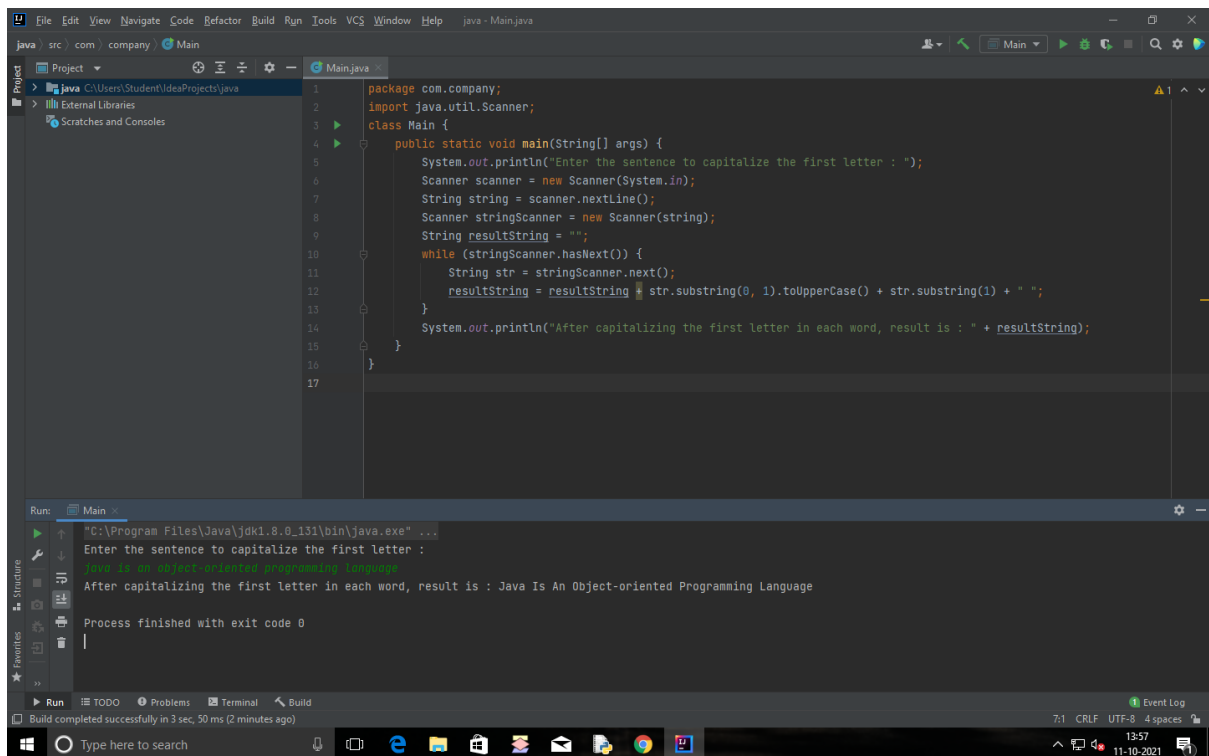


# 1.) Java program to capitalize first letter of each word.



The screenshot shows an IDE with a Java project named 'Main'. The code in 'Main.java' uses a Scanner to read a sentence and a while loop to iterate through each word, capitalizing its first letter. The Run console shows the program's execution with the input 'Java is an object-oriented programming language' and the output 'Java Is An Object-oriented Programming Language'.

```
1 package com.company;
2 import java.util.Scanner;
3 class Main {
4     public static void main(String[] args) {
5         System.out.println("Enter the sentence to capitalize the first letter : ");
6         Scanner scanner = new Scanner(System.in);
7         String string = scanner.nextLine();
8         Scanner stringScanner = new Scanner(string);
9         String resultString = "";
10        while (stringScanner.hasNext()) {
11            String str = stringScanner.next();
12            resultString = resultString + str.substring(0, 1).toUpperCase() + str.substring(1) + " ";
13        }
14        System.out.println("After capitalizing the first letter in each word, result is : " + resultString);
15    }
16 }
17 }
```

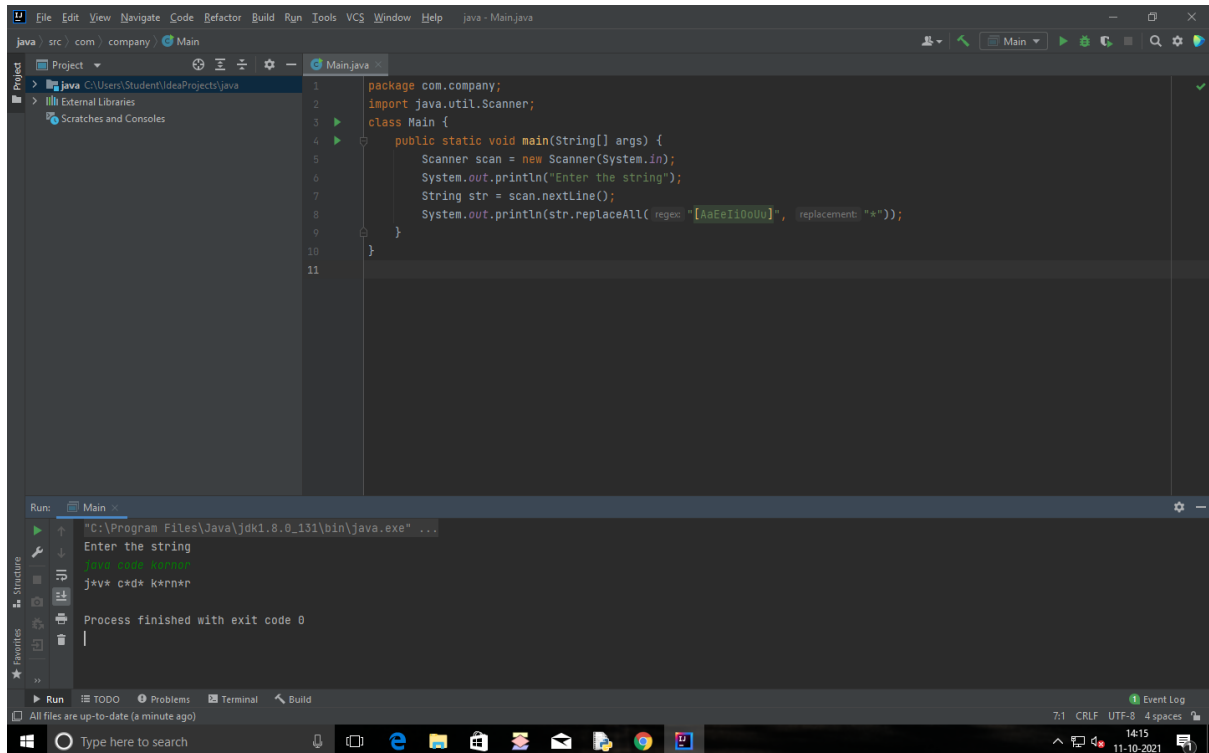
Run: Main

```
"C:\Program Files\Java\jdk1.8.0_131\bin\java.exe" ...
Enter the sentence to capitalize the first letter :
Java is an object-oriented programming language
After capitalizing the first letter in each word, result is : Java Is An Object-oriented Programming Language
Process finished with exit code 0
```

Build completed successfully in 3 sec, 50 ms (2 minutes ago)

7:1 CRLF UTF-8 4 spaces 13:57 11-10-2021

2.)Java program to replace vowels with  
special character  
i.)without using replaceAll().

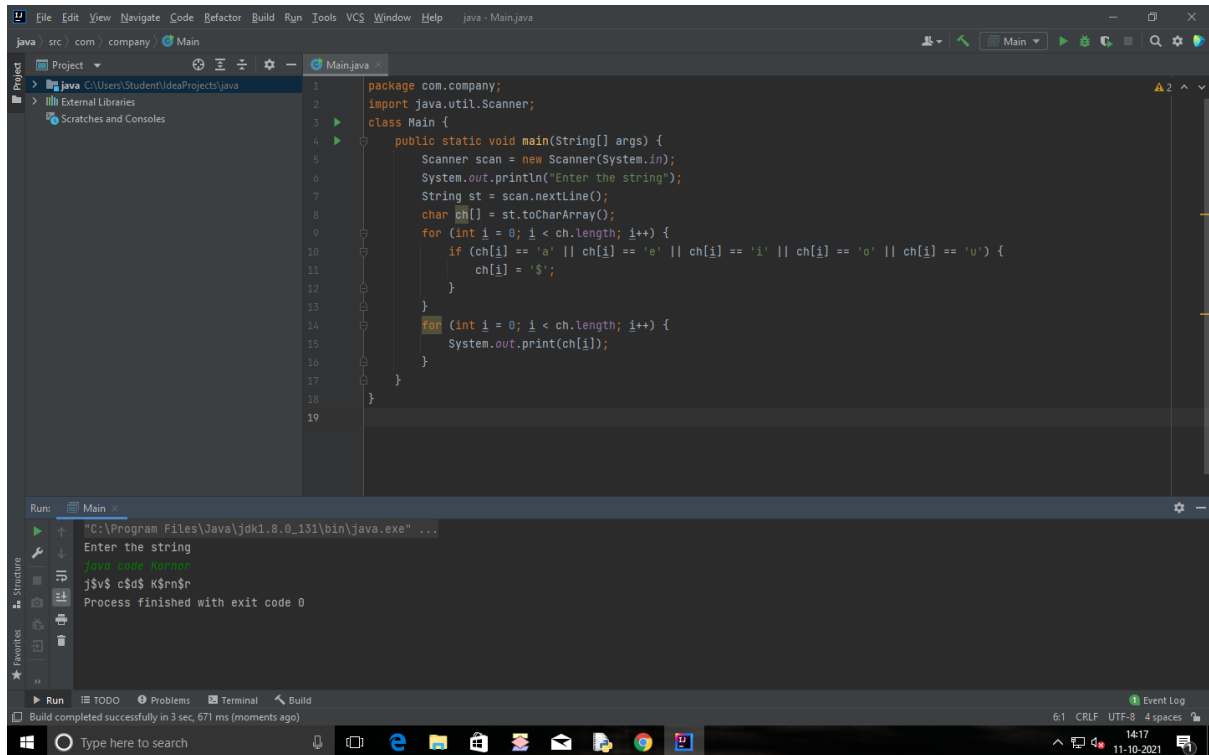


```
1 package com.company;
2 import java.util.Scanner;
3 class Main {
4     public static void main(String[] args) {
5         Scanner scan = new Scanner(System.in);
6         System.out.println("Enter the string");
7         String str = scan.nextLine();
8         System.out.println(str.replaceAll(regex: "[AaEeIiOoUu]", replacement: "*"));
9     }
10 }
11
```

Run: Main

```
"C:\Program Files\Java\jdk1.8.0_131\bin\java.exe" ...
Enter the string
j*y* c*d* k*r*n*r
j*y* c*d* k*r*n*r
Process finished with exit code 0
```

## ii.)using replaceAll()



The screenshot shows an IDE window with a Java file named `Main.java`. The code defines a `Main` class with a `main` method. It uses a `Scanner` to read a string from the user. The string is converted to a character array, and a loop replaces vowels ('a', 'e', 'i', 'o', 'u') with the character '\$'. Finally, the modified character array is printed back as a string.

```
1 package com.company;
2 import java.util.Scanner;
3 class Main {
4     public static void main(String[] args) {
5         Scanner scan = new Scanner(System.in);
6         System.out.println("Enter the string");
7         String st = scan.nextLine();
8         char ch[] = st.toCharArray();
9         for (int i = 0; i < ch.length; i++) {
10             if (ch[i] == 'a' || ch[i] == 'e' || ch[i] == 'i' || ch[i] == 'o' || ch[i] == 'u') {
11                 ch[i] = '$';
12             }
13         }
14         for (int i = 0; i < ch.length; i++) {
15             System.out.print(ch[i]);
16         }
17     }
18 }
19
```

The Run console shows the execution of the program. It prompts "Enter the string" and receives the input "j\$V\$ c\$d\$ K\$rn\$". The output is "j\$V\$ c\$d\$ K\$rn\$". The process finished with exit code 0.

Run: Main  
"C:\Program Files\Java\jdk1.8.0\_131\bin\java.exe" ...  
Enter the string  
j\$V\$ c\$d\$ K\$rn\$  
j\$V\$ c\$d\$ K\$rn\$  
Process finished with exit code 0

Build completed successfully in 3 sec, 671 ms (moments ago)